Preliminary Amendment Dated July 10, 2006

Applicant: NORMAN VICTOR STENNING Attorney Docket No.: 4295-00023

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claims 1-34 (Cancelled)

Claim 35 (New) A queue management system for controlling the movement of a group of one or more people through a virtual queue line for a service, comprising:

registration means for registering the group, the registration means comprising an information carrier and at least one ID tag for the member(s) of the group, the information carrier bearing a registration code and the at least one ID tag including ID details for identifying the member(s) of the group, the registration means further associating the registration code with an indication of group size and uniquely with the ID details:

interface means for enabling communications to and from the group;

a processor associated with the interface means and responsive to a communication from the group including a communicator address and the registration code for generating a registration record for the group representing the group size, the ID details and the communicator address;

the processor being responsive to a further communication from the group requesting access to the virtual queue to enter the group into the virtual queue and thereafter to monitor the place of the group in the virtual queue line and to trigger a summons signal when the group approaches or reaches the head of the queue line;

the interface means being responsive to the summons signal for initiating a communication to the communicator address for summoning the group to the service; and

access control apparatus at the service for reading the at least one ID tag and for

Attorney Docket No.: 4295-00023

comparing the ID details with the registration record in order to evaluate whether

access to the service should be permitted or prevented.

Claim 36 (New) A queue management system according to claim 35, in which the

registration means comprises a respective ID tag for each member of the group.

Claim 37 (New) A queue management system according to claim 35, in which the at

least one ID tag comprises a portable tab or band.

Claim 38 (New) A queue management system according to claim 35, in which the at

least one ID tag includes a member bearing a scannable code.

Claim 39 (New) A queue management system according to claim 35, in which the at

least one ID tag is a virtual tag stored in memory on a computer.

Claim 40 (New) A queue management system according to claim 39, in which the ID

details are in the form of biometric data.

Claim 41 (New) A queue management system according to claim 35, in which the

information carrier is a card and the registration code is an alphanumeric value.

Claim 42 (New) A queue management system according to claim 41, in which the

card is a credit card and the registration code is the credit card number.

Claim 43 (New) A queue management system according to claim 35, in which the

registration means comprise a registration pack including the information carrier and

the at least one ID tag.

- 5 -

Attorney Docket No.: 4295-00023

Claim 44 (New) A queue management system according to claim 35, in which the

registration means comprise at least one registration station.

Claim 45 (New) A queue management system according to claim 35, further

comprising a personal communicator for the communication of audio or visual

messages between the group and the interface means.

Claim 46 (New) A queue management system according to claim 35, in which the

processor is arranged to track the progress of the group through the virtual queue line

by periodically noting the reduction in the number of people in the virtual queue line

ahead of the group.

Claim 47 (New) A queue management system according to claim 35, in which the

processor comprises means for calculating a movement forward for the virtual queue

and is arranged to track the progress of the group through the virtual queue line by

periodically calculating a value representing the movement forward.

Claim 48 (New) A queue management system according to claim 35, in which the

processor comprises means responsive to receipt of the further communication for

initiating a timing period, means for calculating a queuing time starting from the

beginning of the timing period, and means for generating an indication of an expected

service entry time for the group based on a calculated value representing the queuing

time.

Claim 49 (New) A queue management system according to claim 47, in which the

processor comprises a memory for storing a service throughput profile, and in which

- 6 -

Attorney Docket No.: 4295-00023

the calculating means calculates the calculated value based on the stored service

throughput profile.

Claim 50 (New) A queue management system according to claim 49, in which the

service throughput profile is based on records of previous use of the service.

Claim 51 (New) A queue management system according to claim 49, further

comprising monitoring apparatus for monitoring an actual service throughput, and in

which the processor is arranged to receive information from the monitoring apparatus

for updating the stored service throughput profile.

Claim 52 (New) A queue management system according to claim 47, in which the

calculating means performs calculations repeatedly as the group progresses through

the virtual queue and repeatedly updates the calculated value.

Claim 53 (New) A queue management system according to claim 35, in which the

virtual queue line is combined with a physical queue line and in which the processor is

arranged to monitor the place of the group in the overall queue line.

Claim 54 (New) A queue management system according to claim 35, further

comprising means for storing an itinerary for the group representing visits for a

plurality of services, and in which the processor is arranged to process and manage the

itinerary for the group.

Claim 55 (New) A queue management system according to claim 54, further

comprising a plurality of itinerary management stations in communication with the

processor for enabling the group to create, modify and input the itinerary.

- 7 -

Attorney Docket No.: 4295-00023

Claim 56 (New) A queue management system for controlling the movement of a group of one or more people through a virtual queue line for a service, comprising:

at least one ID tag for the member(s) of the group, the at least one ID tag including ID details for identifying the member(s) of the group, the ID details being associated with a unique registration code and a predetermined group size;

registration apparatus responsive to an input of the registration code in conjunction with a communicator address for the group for registering the group, the registration apparatus being arranged to generate a registration record for the group representing the ID details, the group size, and the communicator address;

a processor responsive to a request from the group for access to the virtual queue line for reading the registration record and entering the group into the virtual queue and thereafter for monitoring the place of the group in the virtual queue line, the processor being arranged to trigger a summons signal when the group approaches or reaches the head of the queue line;

interface means responsive to the summons signal for initiating a communication to the communicator address for summoning the group to the service; and

access control apparatus at the service for reading the at least one ID tag and for comparing the ID details with the registration record for evaluating whether access to the service should be permitted or prevented.

Claim 57 (New) A method of queue management for controlling the movement of a group of one or more people through a virtual queue line for a service, comprising the steps of:

assigning to the group an information carrier and at least one ID tag for the member(s) of the group, the information carrier bearing a registration code and the at least one ID tag including ID details for identifying the member(s) of the group;

associating the registration code with an indication of group size and uniquely with the ID details;

in response to a communication from the group including a communicator address and the registration code, registering the group by generating a registration record for the group representing the group size, the ID details and the communicator address;

in response to a further communication from the group for access to the virtual queue, assigning the group a place in the virtual queue and thereafter monitoring the place of the group in the virtual queue line and triggering a summons signal when the group approaches or reaches the head of the queue line;

in response to the summons signal, initiating a communication to the communicator address for summoning the group to the service; and

at the service, reading the at least one ID tag and comparing the ID details with the registration record in order to evaluate whether access to the service should be permitted or prevented.

Claim 58 (New) A method of queue management according to claim 57, comprising assigning a respective ID tag for each member of the group.

Claim 59 (New) A method of queue management according to claim 57, comprising providing the at least one ID tag with a scannable code.

Claim 60 (New) A method of queue management according to claim 57, comprising storing the at least one ID tag as a virtual tag in a memory on a computer.

Claim 61 (New) A method of queue management according to claim 59, comprising scanning the ID details into the computer in the form of biometric data.

Attorney Docket No.: 4295-00023

Claim 62 (New) A method of queue management according to claim 57, in which the

step of assigning at least one tag includes allocating to the group a registration pack

including the information carrier and the at least one ID tag.

Claim 63 (New) A method of queue management according to claim 57, in which the

step of assigning at least one tag includes generating the at least one ID tag through a

computer recognition process.

Claim 64 (New) A method of queue management according to claim 57, comprising

using a personal communicator for the communication of audio or visual messages

between the group and the interface means.

Claim 65 (New) A method of queue management according to claim 57, in which the

step of monitoring comprises tracking the progress of the group through the virtual

queue line by periodically noting the reduction in the number of people in the virtual

queue line ahead of the group.

Claim 66 (New) A method of queue management according to claim 57, in which the

step of monitoring comprises tracking the progress of the group through the virtual

queue line by periodically calculating a value representing movement forward for the

virtual queue.

Claim 67 (New) A method of queue management according to claim 57, comprising

the steps of: in response to receipt of the further communication initiating a timing

period, calculating a queuing time starting from the beginning of the timing period,

and generating an indication of an expected service entry time for the group based on a

calculated value representing the queuing time.

- 10 -

Preliminary Amendment Dated July 10, 2006

Applicant: NORMAN VICTOR STENNING

Attorney Docket No.: 4295-00023

Claim 68 (New) A method of queue management according to claim 66, comprising

storing a service throughput profile, and calculating the queuing time based on the

stored service throughput profile.

Claim 69 (New) A method of queue management according to claim 68, in which the

service throughput profile is based on records of previous use of the service.

Claim 70 (New) A method of queue management according to claim 68, comprising

receiving information concerning an actual service throughput from the service for

updating the stored service throughput profile.

Claim 71 (New) A method of queue management according to claim 67, further

comprising performing calculations repeatedly as the group progresses through the

virtual queue and repeatedly updating the calculated value.

Claim 72 (New) A method of queue management according to claim 57, in which the

virtual queue line is combined with a physical queue line and comprising monitoring

the place of the group in the overall queue line.

Claim 73 (New) A method of queue management according to claim 57, further

comprising storing an itinerary for the group representing visits to a plurality of

services, and processing and managing the itinerary for the group.

Claim 74 (New) A method of queue management for controlling the movement of a

group of one or more people through a virtual queue line for a service, comprising the

steps of:

- 11 -

Attorney Docket No.: 4295-00023

assigning at least one ID tag to the member(s) of the group, the at least one ID tag including ID details for identifying the member(s) of the group, the ID details being associated with a unique registration code and a predetermined group size;

in response to an input of the registration code in conjunction with a communicator address for the group, registering the group by generating a registration record for the group representing the ID details, the group size, and the communicator address;

in response to a request from the group for access to the virtual queue, assigning the group a place in the virtual queue line and reading the registration record and thereafter monitoring the place of the group in the queue line;

triggering a summons signal when the group approaches or reaches the head of the queue line;

in response to the summons signal, initiating a communication to the communicator address for summoning the group to the service; and

at the service, reading the at least one ID tag and comparing the ID details with the registration record for evaluating whether access to the service should be permitted or prevented.